

Disability Assistance Application

Senior Design II: Group # 15

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Client: Scott Weissman, IPAT

Introduction:

The goal of our design group is to design an Android launcher or application that will be used to aid individuals who are cognitively impaired and have difficulty using today's most popular layout on the Android device. We aim to take apps that are already on the Android device and make them easier to access and possibly tweak their functionality so that they are more suited to those who need an easier to understand interface.

Requirements:

Some goals of the project that help define its scope include: making larger icons, working with apps such as the calendar, notes, and the camera to help the user better manage their life and day to day tasks that would otherwise be very difficult to manage and remember. Ideally the home screen created by either this application or launcher would be very simple to follow and would only convey the most commonly used functions.

A list of the discussed goals of this project include:

- Upon startup, with help of the caretaker, this program can be customized to the users needs.
- Reminders (voice, text, picture, video)
- GPS will be used when helping the individual locate their destination.(After a reminder tells them to go to that destination)
- Keeping the home screen as un-cluttered as possible
- Make icons easier to understand/Use larger text if needed
- How-to section which would include some of the most commonly needed tasks
- Reminder to charge the phone when low on battery
- Users like to use the camera- Make the camera easy to access and use
- Make sure that the telephone button is easy to find. Include different sections all within the phone app for a dial pad, contacts and favorites.
- Most commonly used apps/functions with the phone should be very easy to access
- Voicemail- show in a menu sent messages and received messages
- Keep an app that checks up on the user to ensure that certain tasks were performed
- Aided viewing capabilities(somehow integrate the camera into this)

We are currently divided into two groups, design 2 and design 3. Eventually our groups will split off and start working on separate parts of the design requirements for this project. Design 2 will have 2 semesters to work on their requirements and design 3 will have 1 semester.

Summary:

Our requirements are less than specific at this point, but as we dive into the world of Android in the near future, we will be better able to understand what our capabilities are in terms of which requirements will be most feasible and what ones we will have to work with. Given our experience level in terms of Android development, there are still many variables to consider when it comes to what we will be able to manage with the time allowed for this class. Our overall goal is to make using an Android phone much easier to use for those who need a simpler design.